

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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নং-৩৬.০৮.০০০০.২০০.১৬.০০১.২২.৬৪৭

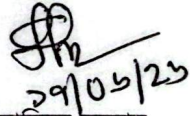
তারিখঃ ১৭/৬/২০২৬ খ্রি.

বিষয়ঃ দাখিলকৃত পেটেন্ট আবেদনসমূহ ওয়েবসাইটে প্রকাশ।

বাংলাদেশ পেটেন্ট আইন, ২০২৩ এর ধারা ১৭(৪) অনুযায়ী ডিপিডিটিতে ২০২৫ সালের পেটেন্ট আবেদন নং ৮৮, ৯১-৯৩, ১০১, ২২৪ ও ২০২৬ সালের পেটেন্ট আবেদন নং ৫২, ৫৩, ৬৬, ৭৯, ৮৫, ৮৬, ৯৪, ৯৫, ৯৯, ১০০, ১০৩, ১১৩-১১৬, ১১৮-১২০, ১২৪, ১২৭-১৩৩, ১৪৫, ১৪৬, ১৪৮-১৫২, ১৫৯, ১৬২, ১৬৩, ১৬৫, ১৬৭-১৭১, ১৭৯, ১৮০, ১৮৭, ১৮৯, ১৯১-১৯৩, ১৯৬, ১৯৮, ২০১, ২০২ — সর্বমোট ৫৯ (উনষাট) টি আবেদন নিম্নবর্ণিত তথ্যাদি সহ অধিদপ্তরের ওয়েবসাইটে (www.dpdt.gov.bd) প্রকাশ করা হল।

- (ক) উদ্ভাবনের শিরোনাম;
- (খ) পেটেন্ট আবেদনকারী ও উদ্ভাবকের নাম;
- (গ) আবেদন দাখিলের তারিখ ও নম্বর;
- (ঘ) অগ্রাধিকার নম্বর ও তারিখ, যদি থাকে;
- (ঙ) পেটেন্ট এর শ্রেণিবিন্যাস;
- (চ) উদ্ভাবনের মূল উপাদান চিত্রায়িত করে এইরূপ অংকন, যদি থাকে;
- (ছ) বিষয়বস্তুর সার-সংক্ষেপ।

সংযুক্তিঃ ৫৯ (উনষাট) পাতা।


২৭/০৬/২৩
মোঃ হাবিবুর রহমান
উপ-পরিচালক (পেটেন্ট)

অনুলিপিঃ

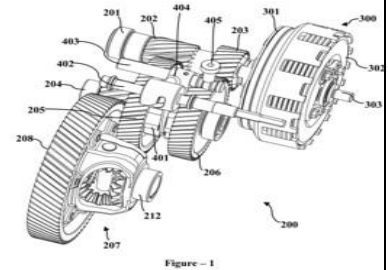
- ১। পরিচালক (সকল), পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।
- ২। সিস্টেম এনালিস্ট, পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর। (ওয়েবসাইটে প্রকাশের জন্য)
- ৩। উপ-পরিচালক (পেটেন্ট) (সকল), পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।
- ৪। মহাপরিচালক মহোদয়ের ব্যক্তিগত সহকারী, পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।



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**Publication of Filed Patent Application
Publication No: 32 & Date: 17 June 2026**

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(23) Priority Data: India, Number :202441022785, Date : 23-03-2024.
(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India
(72) Inventors: (1) GUTTI GNANAKOTAIAH of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (2) KUPPUSAMY LOGANATHAN of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (3) SURENDRAN PRASANNA RAJESH of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (4) RAMALINGAM GOVINDHARAJ of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (5) MYSORE KRISHNAMURTHY AJAYKUMAR of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (6) VIGNESH VIJAYAKUMAR of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (7) KARTHICK ARUMUGAM of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (8) PUSHPAPRIYA KUPPURAJ of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (9) SONAA RANJENDRAN of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (10) R. VARALAKSHMY of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India
(74) Agent : ISLAM & CO., 19/D (3rdFloor), East Noyatola, Mogh Bazar, Dhaka -1217, Bangladesh
(51) INT. CL. : B60K 17/00
(54) Invention Title: A MULTI-MODE TRANSMISSION ASSEMBLY FOR AN ELECTRIC VEHICLE
(57) Abstract The present invention relates to a multi-mode transmission assembly (200) for an electrical vehicle (100). A multi-mode transmission assembly (200) for an electric vehicle (100) comprises a countershaft (201), a drive shaft (204) and a gear-shifting assembly (400). The countershaft (201) is configured to receive a torque from an electric motor of the electric vehicle (100) via a clutch assembly (300). The drive shaft (204) is configured to receive the torque from the countershaft (201) and the drive shaft (204) is configured to rotatably mount a plurality of drive gears (205, 206). The plurality of drive gears (205, 206) in a first configuration and a second configuration is configured to interchangeably transfer the torque to a plurality of rotating members (101) of the electric vehicle (100) via a differential assembly (207).





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(23) Priority Data: India, Number :202441022766, Date : 23-03-2024.
(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India
(72) Inventors: (0) GUTTI GNANAKOTAIAH of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (1) HARIPRASAD SOUNDARRAJAN of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (2) MYSORE KRISHNAMOORTHY AJAYKUMAR of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (3) KUPPUSAMY LOGANATHAN of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (4) KUDUVA SHANTHULAL VISHNUKUMAR of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (5) VIGNESH VIJAYAKUMAR of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (6) RASU VARALAKSHMY of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India
(74) Agent : ISLAM & CO., 19/D (3rd Floor), East Noyatola, Mogh Bazar, Dhaka -1217, Bangladesh
(51) INT. CL. : B60K 5/12
(54) Invention Title: “A MOUNTING ASSEMBLY FOR A POWERTRAIN OF VEHICLE AND A ROD ASSEMBLY THEREOF”
(57) Abstract The present invention relates to a mounting assembly (200) for a powertrain (400) of a vehicle (100) and a rod assembly (300). The mounting assembly (200) comprises a cradle-member (201) to mount the powertrain (400). The rod assembly (300) is configured to link the powertrain (400) with the vehicle (100) via a link member (202) of the mounting assembly (200). The rod assembly (300) comprises a first housing portion (301), a second housing portion (302) and a rod link (305). The first housing portion (301) is rotatably linked to the powertrain (400) via the link member (202). The second housing portion (302) is configured to be connected to one or mounting portions (106) of the cross member (103). The rod link (305) is configured to connect the first housing portion (301) and the second housing portion (302).
<p>Figure - 1</p> <p>Figure - 2</p>



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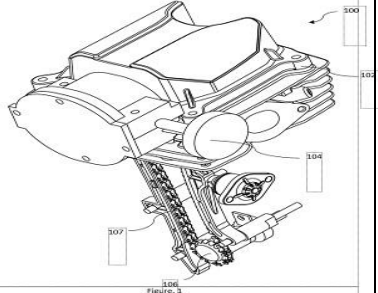
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(23) Priority Data: India, Number :202441019678, Date : 16-03-2024.	
(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India	
(72) Inventors: (1) DEEPAK NAGARAJU of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (2) HYRANE BYRASHETTY BASAVARAJ of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India	
(74) Agent : ISLAM & CO., 19/D (3rd Floor), East Noyatola, Mogh Bazar, Dhaka -1217, Bangladesh	
(51) INT. CL. : B60K 15/077	
(54) Invention Title: A MOTOR VEHICLE	
(57) Abstract The present invention relates to a motor vehicle (10) having a fuel tank (40). The fuel tank (40) is mounted on a frame assembly (20) of the motor vehicle (10). The motor vehicle (10) has a vehicular component (202) disposed inside the fuel tank (40). The vehicular component (202) is configured for restricting the flow of the fuel vapour. The motor vehicle (10) further has a mounting assembly (200), the mounting assembly (200) includes a support structure (201) and an auxiliary support structure (203). The mounting assembly (200) is configured to receive the vehicular component (202) between the support structure (201) and the auxiliary support structure (203), thereby holding the vehicular component (202) in a predefined position when the motor vehicle (10) tilts beyond a predetermined angle.	<p>FIGURE 1</p>



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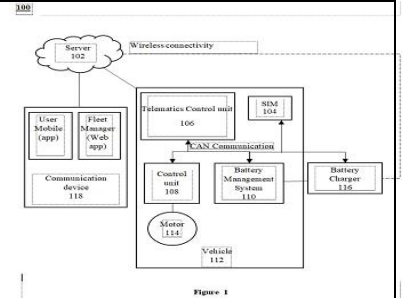
(11) Patent registration No and date , (21) Appl. No. BD-P-2025-93 (22) Filed: 20/02/2025
(23) Priority Data: India, Number :202441019103, Date : 15-03-2024.
(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India
(72) Inventors: (0) VIGNESH VENKATARAMAN of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (1) THIRUVALLUR LOGANATHAN BALASUBRAMANIAN of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India
(74) Agent : ISLAM & CO., 19/D (3rd Floor), East Noyatola, Mogh Bazar, Dhaka -1217, Bangladesh
(51) INT. CL. : F01L 1/18
(54) Invention Title: AN ENGINE ASSEMBLY
(57) Abstract The present invention provides an engine assembly (100, 200) having the intake cam shaft (122, 202) which is configured to actuate an intake rocker arm (108). The one or more connectors (113, 124, 206, 210) is configured to actuate a crank chain (107), the at least one coupler (111, 208) which is configured to connect with the intake cam shaft (122, 202) and the one or more connectors (113, 124, 206, 210). Wherein, the at least one coupler (111, 208) is configured to operate one or more valves (114) of the engine assembly (100, 200) to provide the variable valve actuation.




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(23) Priority Data: India, Number :202441015377, Date : 01-03-2024.
(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India
(72) Inventors: (0) SARAVANAN JAGANATHAN of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (1) SUNIL KUMAR CHIPPA of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (2) MOSALI NAGARJUN REDDY of TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (3) AMIT ANIL MUSHRIF of c/o TVS MOTOR COMPANY LIMITED, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India
(74) Agent : ISLAM & CO., 19/D (3rdFloor), East Noyatola, Mogh Bazar, Dhaka -1217, Bangladesh
(51) INT. CL. : B60L 53/00
(54) Invention Title: ELECTRIC VEHICLE MANAGEMENT SYSTEM AND A METHOD THEREOF
(57) Abstract The present invention relates to electric vehicle management system. The system (100) comprising a Subscriber Identity Token (SIT) card (104), a control unit (108), a telematics control unit (106) and a server (102). The control unit (108) verifies a battery charger (116) connection to the vehicle (112). The telematics control unit (106) receives charger data related to the battery charger (116) in a real-time when the battery charger (116) connection being verified by the control unit (108); send the charger data and a vehicle data to a server (102) in real-time through the SIT card (104). The server (102) validates the charger data and the vehicle data, check payment confirmation from a user; check predefined conditions when the payment being confirmed from the user; and send charging request to the telematics control unit (106) to enable the battery charger (116) to charge the battery when the predefined conditions being satisfied.





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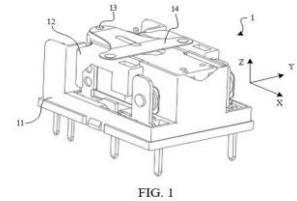
(11) Patent registration No and date , (21) Appl. No. BD-P-2025-224 (22) Filed: 31/07/2025
(23) Priority Data: China, Number :2025109355, Date : 18-07-2024. and China, Number :2025109970957, Date : 18-07-2024. and China, Number :2024109391, Date : 02-08-2024. and China, Number :2024110577517, Date : 02-08-2024.
(71) Applicant: SHANDONG CYNDA CHEMICAL CO., LTD of Economic Development Zone, Boxing County Binzhou, Shandong, 256500, Nationality -China, LIAONING CYNDA CHEMICAL CO., LTD. of No. 417, Hanjiang Road, Comprehensive Industrial Park, Economic Development Zone, Huludao, Liaoning, 125000 , Nationality -China
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(74) Agent : MD JOYNAL ABEDIN CHAUDHURY, SUPREMEiP Law Firm, 121 Motijheel C/A (1st Floor), 1000, Dhaka, Bangladesh
(51) INT. CL. : A61K 47/44
(54) Invention Title: METHOD FOR REDUCING TAR CONTENT IN FEPROXYDIM FORMULATION
(57) Abstract The present disclosure provides a feproxydim composition, comprising feproxydim, epoxidized soybean oil, and optionally a solvent and/or a surfactant. The present disclosure has surprisingly found that the addition of epoxidized soybean oil achieves the purpose of reducing the tar content in a feproxydim formulation.



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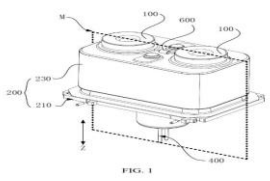
(11) Patent registration No and date , (21) Appl. No. BD-P-2026-52 (22) Filed: 16/02/2026
(23) Priority Data: China, Number :202520268488, Date : 19-02-2025.
(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China
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(51) INT. CL. : H01H 50/02
(54) Invention Title: RELAY
(57) Abstract The present application relates to a relay (1), including a base (11), an armature assembly (12), a connection shaft (13), and an elastic component (14). The armature assembly (12) is mounted on the base (11). One end of the connection shaft (13) is connected to the base (11), and the other end extends into the armature assembly (12). The elastic component (14) is disposed on a side of the armature assembly (12) away from the base (11), an end of the elastic component (14) is connected to an end of the connection shaft (13) away from the base (11), and a part of a surface of the elastic component (14) abuts against a part of a surface of the armature assembly (12).





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(51) INT. CL. : H02J 7/00
(54) Invention Title: PROTECTION DEVICE, PROTECTION CIRCUIT AND BATTERY SYSTEM
(57) Abstract The present disclosure relates to the technical field of electronic control devices, in particular to a protection device, a protection circuit and a battery system. The protection device includes a stationary contact member, a fixed assembly, a movable assembly and an actuator, wherein: the movable assembly is movable relative to the fixed assembly, and the movable assembly includes a movable contact member; the movable assembly has an initial state and an actuated state, when the movable assembly is in the initial state, no conductive connection between the movable contact member and the stationary contact member exists; when the movable assembly is in the actuated state, a conductive connection between the movable contact member and the stationary contact member exists; the actuator is fixed to the fixed assembly, and the actuator can be triggered to switch the movable assembly from the initial state to the actuated state. The protection device can meet the requirements of short-circuit protection and discharge.  FIG. 2



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(51) INT. CL. : B61K 13/00	
(54) Invention Title: Automated System for Monitoring and Alerting Abnormal Bearing Pad Movement in Metro Rail Pillars	
(57) Abstract This invention presents a displacement management and monitoring device designed to detect abnormal displacement between two objects under conditions involving vibration, electrical charge, and temperature induced deformation. This invention not only detects emergency situations but also provides audible and visual warnings through sirens and lighting to alert personnel. The device combines a spring based restoring mechanism, an electrically insulated structural interface, a load bearing pad, and a motion transmitting shaft to convert mechanical displacement into measurable and controllable responses. An electromagnetic unit comprising primary and secondary coils with a magnetic core generates induced electrical signals proportional to dynamic motion, enabling real time displacement sensing and feedback capability. Additionally, a hydraulic damping module incorporating a piston, hydraulic fluid, and a base valve provides controlled resistance and energy dissipation to minimize excessive vibration and structural instability. This invention allows enhanced stability, improved safety, and reduced maintenance requirements in rail and other complicated infrastructure. This invention is applicable for metro rail systems requiring reliable bearing pad movement detection, and long term structural performance monitoring.	



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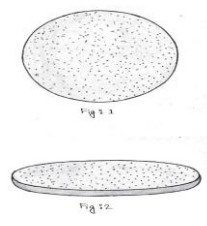
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(51) INT. CL. : G06N 20/00;A41H 1/00;A61B 5/107;G06F 17/18	
(54) Invention Title: A Hybrid Statistical and Machine Learning-Based Adaptive Garment Sizing System for Young Bangladeshi Male Population	
(57) Abstract	
This study presents a novel approach to developing an adaptive clothing size chart and assessing wearability for men aged 20–25. Anthropometric data were collected and analyzed using hierarchical clustering and k-means to identify distinct body measurement groups. Key parameters, including height, weight, hip circumference, and shoulder width, were used to classify individuals into four distinct groups, forming the basis for a size chart reflecting actual body measurements. Additionally, quantitative deviations between garment dimensions and body measurements were evaluated. The overall fit loss for the population was calculated at 1010.16, with significant deviations observed in hip and shoulder width measurements, highlighting the need for dynamic sizing adjustments. An improved regression model utilizing gradient boosting was employed to predict key anthropometric measurements. The model demonstrated superior performance, achieving an R2 score of 0.647 where the mean squared error value is 18.62 , surpassing both linear regression and random forest models. A data-driven framework was established to develop flexible size charts for pants (waist, hips, thighs, inseam, outer seam) and shirts (bust, shoulder, back, waist, hips), accommodating body variability through group-based dimensions and dynamic ranges. This integration of statistical and machine learning methods enhances garment fit, reduces fit loss, and improves consumer satisfaction. These findings provide valuable insights for the apparel industry, facilitating the development of adjustable fabric designs and optimized sizing strategies.	



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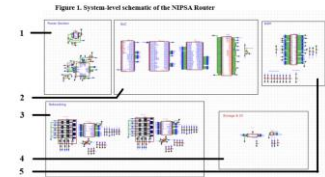
(11) Patent registration No and date , (21) Appl. No. BD-P-2026-85 (22) Filed: 12/03/2026	
(23) Priority Data: N/A	
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(51) INT. CL. : B32B 5/26	
(54) Invention Title: “Fabrication of Coconut coir and Banana fiber incorporated Leather Composite Sheet”	
(57) Abstract The work relates to the fabrication of an eco-friendly and sustainable leather composite sheet by utilizing industrial leather waste and abundantly available natural plant fibers. In this method, leather scraps, trimmings, and chrome shavings are pulverized to produce fine leather fibers. These fibers are then blended with natural coconut coir and banana fibers, which serve as reinforcement materials to enhance the mechanical properties of the composite. Natural Rubber Latex (NRL) is used as a primary binder, with an optimized volume of 100 ml per 100 g of leather fiber. Additional additives such as Polyethylene Glycol (PEG) and Aluminum Sulfate are incorporated to improve bonding strength and durability. The composite slurry is prepared by soaking, mixing, pH adjustment with diluted sulfuric acid, and dilution with water to achieve a moldable consistency. The mixture is then molded and pressed using a hydraulic press at 200 psi to form sheets, followed by air drying and final surface pressing. The resulting composite sheet demonstrates suitable physical and mechanical characteristics for applications in footwear, fashion accessories, and packaging. This invention provides an environmentally responsible solution for managing leather industry waste while promoting the use of renewable agricultural resources in the context of sustainable material development.	



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(23) Priority Data: N/A
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(51) INT. CL. : G10L 15/30
(54) Invention Title: NIPSA Router: Network Intrusion Prevention System using Biological Apoptosis (NIPSA) Router
(57) Abstract The present invention discloses a standalone, hardware-native Network Intrusion Prevention System using Biological Apoptosis (NIPSA) router. Implemented as a physical routing appliance comprising physical network interfaces, high-speed external RAM, and a core System-on-Chip (SoC), the system autonomously isolates malicious network traffic in real time directly at the data plane level. Eliminating reliance on general-purpose processors, software rule engines, and host operating systems, the apparatus employs deeply pipelined packet-processing circuitry and parallel intrusion classification logic arrays embedded within the SoC. A hardware-based severity evaluation unit computes cumulative threat scores dynamically, which drive a deterministic Finite State Machine (FSM) acting as the apoptosis control unit. Upon exceeding programmable threat thresholds, the FSM triggers a hardware switch fabric to irreversibly drop compromised packets (apoptosis), ensuring deterministic, line-rate threat prevention and secure inline network protection.

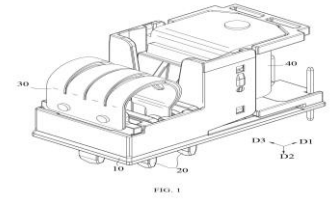




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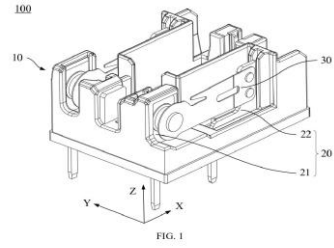
(11) Patent registration No and date , (21) Appl. No. BD-P-2026-94 (22) Filed: 24/03/2026
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(51) INT. CL. : F16F 1/12
(54) Invention Title: MOVABLE SPRING PART AND RELAY
(57) Abstract The present disclosure discloses a movable spring part, comprising: a lead-out portion, a bending segment, a movable segment and a movable contact group ; wherein one end of the bending segment is connected to the lead-out portion, the other end of the bending segment is integrally connected to the movable segment; the movable contact group is connected to the movable segment and configured to be contacted with or separated from a stationary contact group; wherein the movable segment is reversely bent to a position opposite to the lead-out portion in a first direction via the bending segment. The present disclosure further relates to a relay comprising the movable spring part disclosed by present disclosure. (FIG. 2)





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(51) INT. CL. : B60T 8/38
(54) Invention Title: RELAY
(57) Abstract The present application relates to a relay. The relay includes a base (10) and a conductive component (20). The base (10) is provided with a positioning groove (12). A main body of the conductive component (20) is inserted and mounted in the positioning groove (12). At the main body of the conductive component (20), the positioning groove (12) encloses and supports at least two sides of the conductive component (20).
 <p>FIG. 1</p>



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(51) INT. CL. : B60L 15/12	
(54) Invention Title: MAGNETIC CIRCUIT STRUCTURE AND RELAY	
(57) Abstract The present application relates to a magnetic circuit structure and a relay. The magnetic circuit structure includes a core, a yoke, and an armature assembly. The yoke includes a yoke body and two extended portions. The two extended portions are a first extended portion and a second extended portion, respectively, and the first extended portion and the second extended portion are spaced apart and respectively arranged at two sides of the core along a second direction. The armature assembly includes an armature frame, a first armature, and a second armature. The first armature is disposed between the core and the first extended portion, and the second armature is disposed between the core and the second extended portion; and both the first armature and the second armature are spaced apart from the core. The magnetic circuit structure has a first state and a second state. In the first state, the first armature abuts against the first extended portion, and the second armature is spaced apart from the second extended portion. In the second state, the second armature abuts against the second extended portion, and the first armature is spaced apart from the first extended portion. The magnetic circuit structure of the present application can reduce a drive voltage dispersion of the relay and ensure that the parameters are qualified.	<p>FIG. 1</p>



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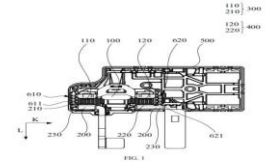
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(51) INT. CL. : H01H 50/02
(54) Invention Title: BASE ASSEMBLY OF RELAY AND RELAY
(57) Abstract The present application relates to a base assembly of a relay and a relay. The base assembly of the relay includes a base and a support component. The base includes a base body and two limiting portions arranged on the base body. The two limiting portions are spaced apart along a first direction. The support component is arranged on a side of the base body provided with the limiting portions and located between the two limiting portions. The support component includes a support plate and two turnup structures arranged on the support plate. The two turnup structures are located on two opposite sides of the support plate in the first direction respectively. The two turnup structures corresponding to the two limiting portions one by one. Each turnup structure abuts against a respective limiting portion. The turnup structures on the support component respectively abut against the two limiting portions one by one, so that the base is effectively prevented from being concavely deformed when being heated; an overall height of the support component can be increased by the turnup structures, thereby guaranteeing a height of the support component supporting the base, which is favorable to improving a support effect of the support component supporting the base.
<p>FIG. 1</p>



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China
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(51) INT. CL. : H01H 50/54
(54) Invention Title: RELAY
(57) Abstract The present application relates to a relay, including a movable contact assembly including a first movable contact and a second movable contact spaced apart. A stationary contact assembly is spaced apart from the movable contact assembly along a second direction of the movable contact assembly. The stationary contact assembly includes a first stationary contact and a second stationary contact. The first stationary contact is positioned opposite the first movable contact, and the second stationary contact is positioned opposite the second movable contact. The first stationary contact and the first movable contact are configured as a first contact unit, and the second stationary contact and the second movable contact are configured as a second contact unit. A first arc extinguishing assembly includes at least two first arc extinguishing grids. All of the first arc extinguishing grids are located on a side of the first contact unit away from the second contact unit. All of the first arc extinguishing grids are spaced apart along the second direction, and a first arc extinguishing gap is formed between two adjacent first arc extinguishing grids. A mounting housing is provided with at least one first heat dissipation hole. The movable contact assembly, the stationary contact assembly, and the first arc extinguishing grids are all disposed in the mounting housing. Each of the first heat dissipation holes is in communication with at least one of the first arc extinguishing gaps.





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(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, , Nungambakkam, Chennai 600 006, Nationality -India	
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(74) Agent : Md. Zahirul Islam, Advocate, Islam & Co., Flat No-1/506, 36 Kakrail, Eastern Pioneer Road, Segunbagicha, 1000, Dhaka, Bangladesh	
(51) INT. CL. : B60R 7/04	
(54) Invention Title: A VEHICLE	
(57) Abstract ABSTRACT thepresentsubjectmatterrelatesto a vehicle (100). The vehicle (100) comprises a front compartment (102). The front compartment (102)comprises: a cabin floor (110), a horizontal member (104) mounted on the cabin floor (110), and a storage module (200) mounted on at least the cabin floor (110) and the horizontal member (104). The horizontal member (104) extends away from the cabin floor (110) in an upward direction. The storage module (200) is configured to detachably couple with a seat frame assembly (108) of the vehicle.	<p>Name of Applicant: TVS Motor Company Limited No. of Application: 117</p> <p>No. of Sheets: 7 Sheet No.: 1/7</p> <p>Figure 1</p> <p>Md. Zahirul Islam, Advocate Partner of, Islam & Co., 36 Kakrail, Eastern Pioneer Road, Segunbagicha, Dhaka-1000</p>



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(23) Priority Data: India, Number :202541034347, Date : 07-04-2025.	
(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, , Nungambakkam, Chennai 600 006, Nationality -India	
(72) Inventors: (1) JITENDRA PATEL of c/o TVS Motor Company Limited, “Chaitanya”, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai, 600 006, India Nationality -India, (2) ATHIRA BABU MOONATTU BABU of c/o TVS Motor Company Limited, “Chaitanya”, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai, 600 006, India Nationality -India, (3) GOLLAPALLI SURYA GANGADHARA RAVIKANTH of c/o TVS Motor Company Limited, “Chaitanya”, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai, 600 006, India Nationality -India, (4) MOSALI NAGARJUN REDDY of c/o TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India	
(74) Agent : Md. Zahirul Islam, Advocate, Islam & Co., Flat No-1/506, 36 Kakrail, Eastern Pioneer Road, Segunbagicha, 1000, Dhaka, Bangladesh	
(51) INT. CL. : B60G 7/02	
(54) Invention Title: SEMI TRAILING ARM SUSPENSION FOR A VEHICLE	
(57) Abstract ABSTRACT The present disclosure provides a vehicle (100). The vehicle (100) comprises a pair of long members (101, 103) extended along a longitudinal direction of the vehicle (100). The vehicle (100) further comprises a cross member (105) mounted between the pair of long members (101, 103) in a lateral direction of the vehicle (100). Further, the vehicle includes a pair of semi trailing arm assemblies (107a, 107b). A first end (109a, 109b) of each of the pair of semi trailing arm assemblies (107a, 107b) being coupled to the cross member (105) and a second end (111a, 111b) of each of pair of semi trailing arm assemblies being coupled to a rear axle of the vehicle (100). The first end (109a, 109b) being inclined at a predefined angle with respect to one of the cross member (105) or a wheel center axis (X-X').	<p>Source of Applicant: TVS Motor Company Limited No. of Applicants: 1</p> <p>No. of Sheets: 1 Sheet No.: 1/1</p> <p>FIG. 1A</p> <p>— Md. Zahirul Islam, Advocate Flat No-1/506, 36 Kakrail, Eastern Pioneer Road, Segunbagicha, Dhaka-1000, Bangladesh Patent & Trade Mark Attorney Agent for the applicant</p>



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China	
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(51) INT. CL. : H01H 1/50	
(54) Invention Title: ELASTIC STRUCTURE, MOVABLE CONTACT ASSEMBLY, AND RELAY	
(57) Abstract The present application provides an elastic structure, a movable contact assembly, and a relay. The elastic structure includes: a first elastic member including a first support portion and a first elastic portion that are connected to each other, wherein the first support portion is configured to elastically contact the movable contact member, and the first elastic portion is configured to elastically contact a pushing member; and a second elastic member having a first contact portion and a second contact portion, wherein the first contact portion is configured to elastically contact at least one of the first support portion and the movable contact member, and the second contact portion is configured to elastically contact at least one of the first elastic portion and the pushing member.	



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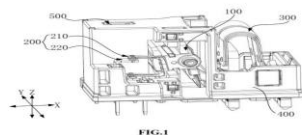
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(51) INT. CL. : H01H 1/50	
(54) Invention Title: MOVABLE CONTACT ASSEMBLY AND RELAY	
(57) Abstract The present application provides a movable contact assembly and a relay. The movable contact assembly includes: at least two movable contact members configured to reciprocate between a closed position and an open position, wherein at least one of the movable contact members is provided with an arcing contact, and at least one of the movable contact members is provided with a current-carrying contact; a third elastic member configured to elastically connect to at least one of the movable contact members provided with the arcing contact, and configured to elastically contact the base or a component stationary relative to the base, thereby applying a force to the movable contact member provided with the arcing contact, the force being suitable for moving the movable contact member provided with the arcing contact towards the closed position.	



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(51) INT. CL. : H01H 50/38	
(54) Invention Title: AUXILIARY CONTACT ASSEMBLY AND MAGNETIC LATCHING RELAY	
(57) Abstract The present disclosure relates to an auxiliary contact assembly and to a magnetic latching relay. The auxiliary contact assembly is configured for locating on one side of an armature assembly in a first direction and comprising: an auxiliary movable contact part; and an auxiliary stationary contact part, and wherein at least a portion of the auxiliary movable contact part is fixedly fixed to the armature assembly for following the armature assembly when the armature assembly rotates around the rotational axis; the auxiliary stationary contact part is located within a rotation path of the auxiliary movable contact part, and the auxiliary movable contact part is configured to contact or separate from the auxiliary stationary contact part; and wherein the first direction is parallel to the rotational axis of the armature assembly. Fig. 2	 <p>FIG. 1</p>



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China	
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(51) INT. CL. : H01H 57/00	
(54) Invention Title: CONNECTING ASSEMBLY AND RELAY	
(57) Abstract The present disclosure relates to the technical art of electronic control devices, and relates to a connecting assembly and a relay. The connecting assembly includes: an armature bracket, which includes a body portion and a connecting portion; pusher, which includes a first portion and a second portion, the first portion is configured to connect the contact assembly, and the second portion is located on one side of the first portion in the first direction; the second portion is provided with an insertion slot with the slot opening located on one side of the second portion in the second direction, which is parallel to the axis of rotation of the body portion; wherein at least a portion of an end of the connecting portion in the second direction is inserted into the insertion slot, and the other end of the connecting portion in the second direction is provided with a limiting slot; the slot opening of the limiting slot is set opposite to the slot opening of the insertion slot, and at least part of the pusher is located in the limiting slot, the limiting slot is at least configured to limit the maximum displacement of the pusher in the third direction. By optimizing its own structure, the connecting assembly can reduce the assembly difficulty of the armature bracket and the pusher, as well as improve the reliability of the connection relationship.	
Fig. 1	



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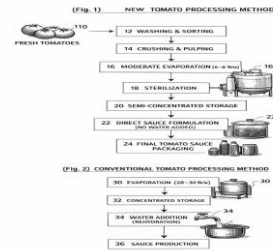
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(23) Priority Data: China, Number :2025104047749, Date : 01-04-2025.	
(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China	
(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co., Ltd of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, China Nationality -China	
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(51) INT. CL. : H01H 45/04	
(54) Invention Title: MOUNTING BASE, RELAY AND ASSEMBLY METHOD OF RELAY	
(57) Abstract The present invention relates to the technology field of electronic control device, and relates to a mounting base, a relay, and an assembly method of the relay. The mounting base includes: a base, the base includes a first chamber and a second chamber, wherein a side of the first chamber in the first direction includes a first opening, and the first opening is used as an installation opening for the contact portion; and wherein the second chamber is located on a side of the first chamber in the second direction, the second chamber is provided with a second opening and a third opening in the third direction, and the third opening and the second opening are located on opposite sides of the base. The second opening is at least used as an installation opening for a coil assembly in the magnetic circuit portion, and the third opening is at least used as an installation opening for an armature assembly in the magnetic circuit portion. The mounting base can enhance its structural strength and improve its limiting effect on other structural components by optimizing its own structure, thereby improving the service life and safety performance of the relay; at the same time, the mounting base can reduce assembly difficulty, effectively alleviate or even completely solve the problem of scraping debris. Fig. 2	



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(23) Priority Data: N/A
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(51) INT. CL. : B01D 1/28
(54) Invention Title: Energy-Efficient Method for Producing Tomato-Based Products by Eliminating the Evaporation–Rehydration Cycle
(57) Abstract Growing global demand for water and energy, coupled with limited freshwater and fossil fuels, necessitates efficient resource management and sustainable industrial practices. The present invention provides a novel method for tomato processing that eliminates rehydration step in sauce production. Tomato juice is concentrated to a level (6–9 °Brix), sterilized, and stored in concentrated form. The concentration level is controlled such that the amount of water removed during evaporation equal to the amount of water required to add for final product. The evaporation stage, representing the highest energy consumption in the process, is reduced by approximately 65%. During sauce production, the stored base is used directly without adding water, with sugar, salt, pesticides, and other solid ingredients. Referring to Figure 1, fresh tomatoes (110) are introduced into a washing and sorting unit (12). The cleaned tomatoes are processed in a crushing and pulping unit (14) to obtain juice. The juice is then transferred to an evaporation unit (16), where concentration is performed to achieve 6–9 °Brix. The concentrated product is then sterilized in unit (18) and stored in unit (20). During production, the stored product is sent to a direct sauce formulation unit (22) without adding water, followed by packaging in unit (24). The method reduces resource consumption, including approximately 54 liters of diesel-equivalent fuel, 600 kg of water, and 144 kg of carbon dioxide emissions per ton of tomato sauce produced.





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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China	
(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, China Nationality -China	
(74) Agent : A.B.M. Sohailud Doulah, Trademark Agent., House No. 153/2, Road No. 2/2, Block A, Section 12, Mirpur, , 1216, Dhaka, Bangladesh	
(51) INT. CL. : G01R 11/06	
(54) Invention Title: MAGNETIC CIRCUIT STRUCTURE AND RELAY	
(57) Abstract The present disclosure relates to the technical field of electronic control devices, and relates to a magnetic circuit structure and a relay. The magnetic circuit structure includes two yokes, an armature and a permanent magnet, wherein at least one of the yokes is provided with a bump on a side facing the other of the yokes, and the bump is provided with an end surface on a side facing the other of the yokes, and the end surface is disposed directly opposite to the other of the yokes; an arrangement direction of the two yokes forms a first direction; the permanent magnet is located between the two yokes and is in contact with a surface of one of the yokes where no bump is provided, and the permanent magnet is disposed to avoid the bump; the armature is located between the two yokes; along a length direction of the armature, one end of the armature served as a fixed fulcrum is disposed to rotate relative to the yoke, and the other end of the armature swings relative to the yoke; the armature avoids the bump and the permanent magnet in a second direction, and the second direction is perpendicular to the first direction and the length direction of the armature. The magnetic circuit structure can reduce assembly difficulty, simplify assembly steps, and improve assembly efficiency and assembly yield. (FIG. 7)	



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China	
(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, China Nationality -China	
(74) Agent : A.B.M. Sohailud Doulah, Trademark Agent., House No. 153/2, Road No. 2/2, Block A, Section 12, Mirpur, , 1216, Dhaka, Bangladesh	
(51) INT. CL. : G01R 11/06	
(54) Invention Title: MAGNETIC CIRCUIT STRUCTURE AND RELAY	
(57) Abstract The present disclosure relates to the technical field of electronic control devices, in particular to a magnetic circuit structure and a relay. The magnetic circuit structure includes two yokes, an armature and a permanent magnet, at least one of the yokes is provided with a bump on a side facing the other of the yokes, and the bump is provided with an end surface on a side facing the other of the yokes; the permanent magnet is located between the two yokes; and the permanent magnet is arranged directly opposite to the end surface of the bump on one of the yokes, and the permanent magnet is arranged in contact with a surface of the other of the yokes to form a magnetic conductive path between the end surface, the permanent magnet and the other of the yokes. The magnetic circuit structure can reduce the number of structural members, simplify assembly steps, reduce assembly difficulty, and improve assembly efficiency and assembly yield. (FIG. 7)	



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(51) INT. CL. : H05K 5/02	
(54) Invention Title: MOUNTING BASE AND RELAY	
(57) Abstract The present disclosure relates to the technical field of electronic control devices, in particular to a mounting base and a relay. The mounting base includes: a base and a partition plate assembly that are integrally formed. The base is provided with a first mounting slot and a second mounting slot, the first mounting slot is configured to mount a yoke and a permanent magnet, and the second mounting slot is configured to mount a coil; the partition plate assembly includes a first partition plate, the first mounting slot and the second mounting slot are separated by the first partition plate, and an opening of the first mounting slot and an opening of the second mounting slot are located on two opposite sides of the base in a first direction; the base is further provided with a third mounting slot configured to mount a contact part, and the third mounting slot is located on at least one side of the second mounting slot in a second direction; and the partition plate assembly further includes a second partition plate, and the second partition plate is located between the third mounting slot and the second mounting slot to separate the second mounting slot from the third mounting slot. The mounting base is an integrated structure, which can reduce the number of parts, save the assembly process, reduce the assembly difficulty of the relay, and improve the assembly efficiency and assembly effect. (FIG. 4)	



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(23) Priority Data: China, Number :2025104567118, Date : 12-04-2025.
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(51) INT. CL. : C07D 263/54
(54) Invention Title: BENZOXAZOLE COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF
(57) Abstract The present invention relates to a benzoxazole compound, a preparation method therefor and use thereof, and the use in preventing and controlling invertebrate pests, the benzoxazole compound has a structure represented by formula I, wherein the groups are defined as described in the description. The benzoxazole compound provided by the present invention demonstrates high efficacy for preventing and controlling invertebrate pests in agriculture, horticulture, animal husbandry and hygiene fields, the compound can be used to control a wide range of pests and has a promising application prospect.
<p style="text-align: center;">formula I.</p>



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(23) Priority Data: N/A	
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(74) Agent : bd_goutamaraid9263, 11th floor, IEB Building, Ramna, 1000, Dhaka, Bangladesh	
(51) INT. CL. : G01R 22/06	
(54) Invention Title: Development of Demand Response Enabled Smart Energy Meter	
(57) Abstract The innovation is for a demand-response-enabled smart energy meter that is intended to increase grid stability and consumer reliability in electricity distribution networks, particularly in areas where intermittent renewable energy sources are becoming more prevalent. The meter combines real-time measurement of voltage, frequency, current, power, and energy with a microcontroller-based Priority Load Control Algorithm that divides consumer loads into critical, semi-essential, and non-essential groups. An Intelligent Load Control Unit (ILCU) automatically disconnects lower-priority loads when grid voltage or frequency falls below predefined thresholds, maintaining continuous supply to vital loads. The system allows for remote setup of cutoff parameters, customer category selection, and firmware updates. Additionally, the meter has hourly data logging and load profiling to ensure proper invoicing and usage analysis. The concept minimizes the need for feeder-level load shedding by responding autonomously to unstable grid circumstances, while also providing a cost-effective, scalable solution for grid management in underdeveloped countries.	<p>Figure: Flow chart for Priority-Based Load Control</p>



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(23) Priority Data: N/A
(71) Applicant: Dr. Mohammed Abdus Samad, Chief Scientific Officer (R.C) & Head, Transboundary Animal Diseases Research Centre of TADRC, BLRI, Savar, Dhaka, Nationality -Bangladesh
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(74) Agent : Bangladesh Livestock Research Institute (BLRI), Savar, 1341, Savar, Bangladesh
(51) INT. CL. : A61B 17/20
(54) Invention Title: Inactivated Avian Influenza A/H9N2 vaccine
(57) Abstract The present invention relates to a locally developed inactivated Avian Influenza A/H9N2 vaccine for the prevention and control of H9N2 infection in poultry. The vaccine is developed from a field isolate of avian influenza H9N2 virus obtained from clinically suspected chickens in Bangladesh. Clinical samples were collected and subjected to molecular detection using RT-qPCR targeting the matrix (M) gene and HA & NA gene for H9N2, followed by virus isolation in specific pathogen-free (SPF) embryonated chicken eggs. Candidate isolates were characterized by hemagglutination assay, antigenic cartography, and whole genome sequencing. Whole genome sequence analysis revealed the isolate A/chicken/NRL-AI-1767/Bangladesh/2022/H9N2 , belonging to the G5.7 lineage, was selected as the vaccine seed strain due to its antigenic compatibility with circulating field strains. The virus was propagated in SPF embryonated eggs and chemically inactivated using beta-propiolactone, and formulated with an oil-based adjuvant (Montanide ISA 71 VG) to produce a stable vaccine formulation. The vaccine was evaluated for sterility, purity, safety, immunogenicity, and protective efficacy in experimental chickens. The results demonstrated that the vaccine induced strong humoral immune responses and maintained protective antibody titers for up to 31 weeks following vaccination. Field validation trials conducted in commercial poultry farms further confirmed that the vaccine provided superior immune protection compared to commercially available vaccines. The invention therefore provides a safe, effective, and locally adapted vaccine for controlling H9N2 avian influenza in poultry populations which will help to reduce the burden of A/H9N2 avian influenza as well as ensure safe poultry production.



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(71) Applicant: Dr. Mohammed Abdus Samad, Chief Scientific Officer (R.C) & Head, Transboundary Animal Diseases Research Centre of TADRC, BLRI, Savar, Dhaka, Nationality -Bangladesh
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(74) Agent : Bangladesh Livestock Research Institute (BLRI), Savar, 1341, Savar, Bangladesh
(51) INT. CL. : A61B 17/20
(54) Invention Title: Live Attenuated Goat Pox (GTP) vaccine
(57) Abstract The present invention describes the development of a live attenuated Goat Pox vaccine for the prevention and control of Goat Pox in Bangladesh. The vaccine has derived from a locally isolated virulent field strain of <i>goat pox virus</i> attenuated through serial passaging (60 passages) in multiple cell line (Primary lamb testicular cell, Vero cell line and MDBK cell line). The genomic sequences of the BLRI developed goat pox vaccine whose Gene Bank accession no. PX734138 (150,207 bp, 150 ORFs; and GC 41%) and the parent strain of the BLRI_Bangladesh_GTPV_43 virus (Gene Bank accession no. PX499192) strain (150,206 bp and 152 ORFs and GC 42%), share 99.98% nucleotide sequence identity, differed by five nucleotide changes, comprising one insertion at 15691 bp, one deletion at 53910 bp, and three single nucleotide polymorphisms at 96604 bp, 99432 bp and 101366 bp respectively. The attenuated vaccine is non-reverting, non-transmissible, and capable of eliciting strong protective immunity in vaccinated goat with no adverse effects. The vaccine is formulated in a lyophilized form with pharmaceutically acceptable stabilizers, allowing for long-term storage and ease of transport under field conditions. This vaccine provides a safe, effective, and scalable solution for controlling Goat Pox outbreaks in Bangladesh.



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(23) Priority Data: United States of America, Number :19182007, Date : 17-04-2025.
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(51) INT. CL. : H04W 74/00
(54) Invention Title: SWITCHING CRITERIA FOR NON-PRIMARY CHANNEL ACCESS
(57) Abstract An apparatus, method, and computer program product are provided for switching from a Basic Service Set (BSS) primary channel to a Non-Primary Channel Access (NPCA) primary channel for communicating with an Access Point (AP); and in response to at least one condition for switching back to the BSS primary channel being satisfied, switching from the NPCA primary channel to the BSS primary channel for communicating with the AP. Additionally, an apparatus, method, and computer program product are provided for switching from a BSS primary channel to an NPCA primary channel, the NPCA primary channel associated with a mode of operation in which untriggered uplink (UL) transmission is not enabled; and receiving, from the AP via the NPCA primary channel, an initial control frame (ICF) comprising a field indicating an NPCA duration that defines a minimum duration until switching from the NPCA primary channel to the BSS primary channel must occur.

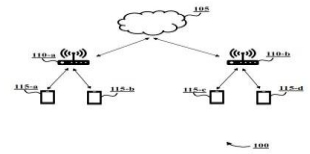


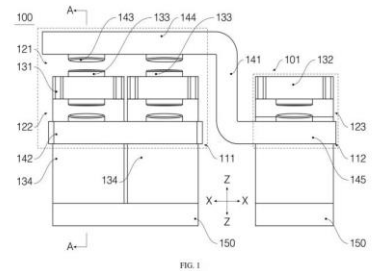
FIG. 1



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(23) Priority Data: China, Number :2025104794982, Date : 16-04-2025.
(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China
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(74) Agent : MD JOYNAL ABEDIN CHAUDHURY , SUPREMEiP Law Firm, 121 Motijheel C/A (1st Floor), 1000, Dhaka, Bangladesh
(51) INT. CL. : B29C 45/14
(54) Invention Title: CONTACT PART AND RELAY
(57) Abstract The present application discloses a contact part and a relay. The contact part includes: at least one switch, each switch including a stationary contact member and a movable contact member; and a mounting base fixed relative to each stationary contact and including a base body and at least one connecting member that are fixedly connected to each other. The stationary contact member and the movable contact member are both contact members. At least one contact member is a first contact member fixedly connected to the base body through the at least one connecting member. Furthermore, the base body and the connecting member are integrally formed by insert molding. The relay includes the contact part described above. Compared to the related art, the connection strength of the contact part in the above technical solution can be ensured.

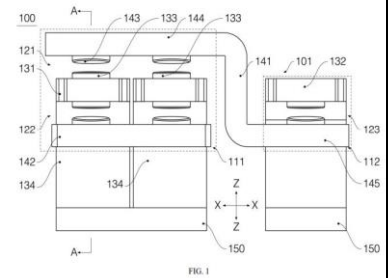




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(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China
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(51) INT. CL. : F16H 21/18
(54) Invention Title: RELAY
(57) Abstract The present application discloses a relay. A pushing part of the relay includes a crankshaft and at least one pushing unit, the crankshaft is capable of rotating about a rotating axis and is provided with at least one journal portion, the at least one journal portion extends along an extending direction of the rotating axis and is misaligned with the rotating axis, the pushing unit comprises a connecting body and a pushing body, the connecting body is provided with a sliding groove in sliding fit with the at least one journal portion in a direction perpendicular to the rotating axis, so that the connecting body is driven by the crankshaft to move linearly in the direction perpendicular to the rotating axis or to swing about a swing axis parallel to the rotating axis, and the pushing body is connected to the connecting body and is driven by the connecting body to push the at least one movable contact member to be closed with or disconnected from the stationary contact member. The relay has a structure different from the related art, which is conducive to arranging the driving unit at different positions along the rotating axis of the crankshaft.





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(23) Priority Data: China, Number :2025104794431, Date : 16-04-2025.	
(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China	
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(51) INT. CL. : B60L 15/12	
(54) Invention Title: RELAY, SERIES-PARALLEL SWITCHING CIRCUIT, VEHICLE AND CHARGING SYSTEM	
(57) Abstract The present application discloses a relay, a series-parallel switching circuit, a vehicle and a charging system. A contact part of the relay includes at least two switches, and in a first switch set formed by at least two of the switches, all the switches share a movable contact member to form a common movable contact member, and stationary contact members of all the switches in the first switch set are respectively located on two sides of the common movable contact member along an action direction of the common movable contact member; the common movable contact member is adapted to be closed with the stationary contact member on either side thereof along the action direction of the common movable contact member or to be spaced apart from the stationary contact members on both sides thereof, so that each switch of the contact part has three states, and a pushing part and a driving part of the relay cause the contact part to switch between the three states. The series-parallel switching circuit, the vehicle and the charging system employ the above-described relay having at least three switches. By adopting the above technical solution, three-state switching of multiple switches can be realized or a physical basis can be provided for the switching, and higher integration and a more compact structure are realized.	



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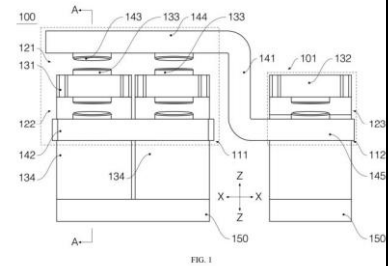
(11) Patent registration No and date ,	
(21) Appl. No. BD-P-2026-150	
(22) Filed: 16/04/2026	
(23) Priority Data:	
United States of America, Number :63790385, Date : 17-04-2025.	
(71) Applicant:	Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland
(72) Inventors:	(0) Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Finland Nationality -Finland
(74) Agent :	A.B.M. Sohailud Doulah, Trademark Agent., House No. 153/2, Road No. 2/2, Block A, Section 12, Mirpur, , 1216, Dhaka, Bangladesh
(51) INT. CL. :	H04W 72/04
(54) Invention Title:	SWITCHING CRITERIA FOR NON-PRIMARY CHANNEL ACCESS
(57) Abstract	<p>An apparatus, method, and computer program product are provided for switching from a Basic Service Set (BSS) primary channel to a Non-Primary Channel Access (NPCA) primary channel for communicating with an Access Point (AP); and in response to at least one condition for switching back to the BSS primary channel being satisfied, switching from the NPCA primary channel to the BSS primary channel for communicating with the AP. Additionally, an apparatus, method, and computer program product are provided for switching from a BSS primary channel to an NPCA primary channel, the NPCA primary channel associated with a mode of operation in which untriggered uplink (UL) transmission is not enabled; and receiving, from the AP via the NPCA primary channel, an initial control frame (ICF) comprising a field indicating an NPCA duration that defines a minimum duration until switching from the NPCA primary channel to the BSS primary channel must occur.</p>
	<p style="text-align: center;">FIG. 1</p>



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China
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(51) INT. CL. : H01H 50/02
(54) Invention Title: ANTI-SHORT CIRCUIT AND RELAY
(57) Abstract The present application discloses an anti-short circuit structure and a relay. The anti-short circuit structure includes a switch including a movable contact member and a stationary contact member and a pushing unit including a pushing body and a first elastic member. The pushing body is driven by a driving part having an in-place locking function or is driven by a transmission mechanism having a mechanical self-locking function, so as to push the movable contact member to be closed with or disconnected from the stationary contact member; the first elastic member is arranged corresponding to a closing direction of the movable contact member and is located between the pushing body and the movable contact member, so as to provide the movable contact member with a contact pressure to be closed with the stationary contact member when the movable contact member is closed with the stationary contact member; the pushing body is provided with a first limiting portion arranged corresponding to the closing direction of the movable contact member, and the first limiting portion is in contact with or approaches the movable contact member along the closing direction of the movable contact member when the movable contact member is closed with the stationary contact member. The relay includes the anti-short circuit structure. The anti-short circuit structure has a structure different from the related art.

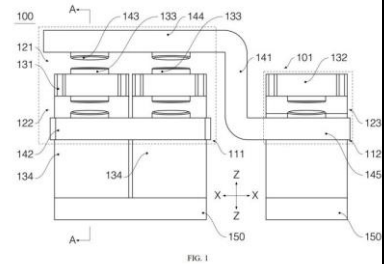




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(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China
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(51) INT. CL. : G05B 19/045
(54) Invention Title: STATE DETECTING PART AND RELAY
(57) Abstract The present application discloses a state detecting part and a relay. The state detecting part includes at least two auxiliary switches, each auxiliary switch comprises a movable spring and a stationary spring that are configured to enable the auxiliary switch to be closed or opened, two auxiliary switches are a first auxiliary switch and a second auxiliary switch respectively, the first auxiliary switch and the second auxiliary switch share the movable spring to form a common movable spring, the common movable spring is located between the stationary spring of the first auxiliary switch and the stationary spring of the second auxiliary switch, and the common movable spring is configured to be closed with the stationary spring of the first auxiliary switch or the stationary spring of the second auxiliary switch, or the common movable spring is configured to be disconnected from both the stationary spring of the first auxiliary switch and the stationary spring of the second auxiliary switch. The relay includes the state detecting part. The above technical solution is beneficial for realizing the detection of multiple states of the relay, especially for three states.





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(71) Applicant: Daffodil International University of Daffodil Smart City, Birulia, Savar, Dhaka, 1216, Bangladesh
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(51) INT. CL. : C09J 189/06
(54) Invention Title: A Process for the Production of Chitosan from Fish Scales Wastes
(57) Abstract The present invention relates to a process for the production of chitosan from fish scale waste. The process comprises sorting, cleaning, washing, and sun-drying fish scales, followed by two-stage demineralization using 0.5 N and 0.2 N hydrochloric acid, deproteinization using 1% sodium hydroxide, and deacetylation using 16% sodium hydroxide under controlled temperature and time conditions. The treated material is washed to neutral pH and dried at 75°C for 18 hours to obtain chitosan. The resulting product is off-white in color and shows a degree of deacetylation of 92.15%, yield of 23.2%, solubility of 81.36% in 1% lactic acid, molecular weight of 60 kDa, and characteristic FTIR peaks confirming chitosan formation. The invention provides a simple method for converting fish scale waste into a value-added biopolymer useful in water treatment, food, agriculture, cosmetics, and pharmaceutical applications. The chemical conversion of chitin into chitosan is shown below.

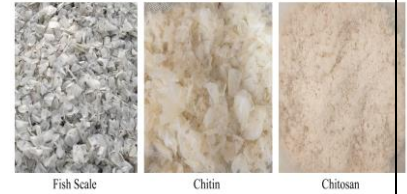
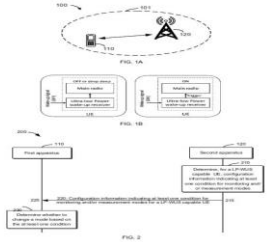


Figure 1. Chitosan produced from fish scale waste.



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(22) Filed: 26/04/2026	
(23) Priority Data:	
United States of America, Number :63802784, Date : 09-05-2025.	
(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland	
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(51) INT. CL. : H04W 52/02	
(54) Invention Title: MODE CHANGE OF LP-WUS UE	
(57) Abstract	
Embodiments of the present disclosure relate to mode change for a low power (LP) wake up signal (LP-WUS) capable user equipment (UE). In an aspect, a first apparatus receives configuration information from a second apparatus. The configuration information indicates at least one condition for monitoring and/or measurement modes for a LP-WUS UE. The at least one condition is associated with one or more time parameters. The first apparatus determines whether to change a mode based on the at least one condition. (FIG. 2)	



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(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland	
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(51) INT. CL. : H04W 24/10	
(54) Invention Title: MEASUREMENT REPORTING	
(57) Abstract ABSTRACT A method is provided that includes performing measurements on candidate beams of candidate cells, and making a determination that an entering condition and/or a leaving condition of a reporting event is satisfied for a time to trigger (TTT) for candidate beam(s). The method includes determining the measurements of the candidate beams to be reported based on a size of the uplink grant according to a specified priority order by beam type including a first beam type for a beam that has satisfied the entering condition for the TTT, and a second beam type for a beam that has satisfied the leaving condition for the TTT. And the method includes preparing a measurement report (MR) medium access control (MAC) control element (CE) to carry the measurements to be reported, and transmitting the MR MAC CE.	
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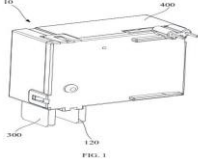
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<p>(23) Priority Data: N/A</p>	
<p>(71) Applicant: Daffodil International University of Daffodil Smart City, Birulia, Savar, Dhaka, 1216, Bangladesh</p>	
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<p>(51) INT. CL. : C09J 189/06</p>	
<p>(54) Invention Title: A Process for the Development of Sprayable Natural Preservatives from Fish Scale Waste</p>	
<p>(57) Abstract</p> <p>The present invention relates to a sprayable natural preservative composition for post-harvest preservation of fruits and vegetables, and to a method for preparing the same from fish scale waste. The composition comprises fish scale-derived chitosan, turmeric extract, lemon extract, lactic acid solution, and water, wherein the chitosan acts as a film-forming and antimicrobial agent, the turmeric extract provides antioxidant and antimicrobial support, and the lemon extract together with lactic acid maintains an acidic medium suitable for chitosan solubility and activity. In one embodiment, the composition comprises about 0.5% chitosan, about 1% turmeric extract, about 1% lemon extract, and about 1.5% lactic acid solution in water, formulated as a sprayable liquid for direct application on produce surfaces. The invention further provides a process for extracting chitosan from fish scales through washing, drying, demineralization, deproteinization, deacetylation, neutral washing, drying, and grinding, followed by formulation of the preservative composition. The preservative is useful for reducing microbial spoilage, reducing weight loss, maintaining visual quality, and extending shelf life of fruits and vegetables during storage. The invention also provides a value-added use of fish scale waste and a safer alternative to chemical preservatives for fresh produce preservation.</p>	<p>A process for the development of sprayable natural preservatives from fish scale waste, turmeric extract and lemon extract</p>



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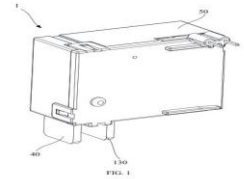
(11) Patent registration No and date , (21) Appl. No. BD-P-2026-167 (22) Filed: 27/04/2026	
(23) Priority Data: China, Number :202510558653, Date : 29-04-2025.	
(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China	
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(74) Agent : A.B.M. Sohailud Doulah, Trademark Agent., House No. 153/2, Road No. 2/2, Block A, Section 12, Mirpur, , 1216, Dhaka, Bangladesh	
(51) INT. CL. : H01H 50/64	
(54) Invention Title: PUSHING ELEMENT, COOPERATING MECHANISM AND ELECTROMAGNETIC RELAY	
(57) Abstract The present application relates to a pushing element, a cooperating mechanism and an electromagnetic relay. The pushing element includes: a push body; a push arm, having a first end connected to the push body, and a second end separated from the push body, so that the push arm and the push body define a receiving recess configured for receiving a first movable spring, the push arm having a first abutting portion located in the receiving recess, and the first abutting portion being configured for abutting against or being separated from the first movable spring; and a protruding block protruding from a surface of the push arm. A side of the protruding block facing the push body has a second abutting portion. The second abutting portion is configured for abutting against or being separated from the second movable spring. The first abutting portion and the second abutting portion are staggered from each other along a thickness direction of the push body. As such, a first abutting force applied via the first movable spring to the first abutting portion and a second abutting force applied via the second movable spring to the second abutting portion do not act on a same force arm, and the push arm is not prone to be deformed.	
(FIG. 6)	



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China
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(51) INT. CL. : F16F 1/04
(54) Invention Title: PRESSURE SPRING, COOPERATING MECHANISM AND ELECTROMAGNETIC RELAY
(57) Abstract The present disclosure relates to a pressure spring, cooperating mechanism, and electromagnetic relay. The pressure spring is engaged between the movable spring terminal and the movable spring of the movable spring portion. The pressure spring includes a main compression elastic section and a shock-absorbing elastic section. The main compression elastic section has a first end and a second end that are opposite to each other. The first end is engaged with the movable spring, and the second end extends away from the movable spring. The shock-absorbing elastic section has a first portion and a second portion that are opposite to each other. The first portion is connected to the first end, and the second portion extends in a direction towards the movable spring terminal and away from the second end. Thus, the pressure spring is configured for increasing the action force applied on the movable spring, enabling quick contact between the movable contact and the stationary contact, thereby increasing the action force between the movable contact and the stationary contact when in contact and overcoming the repulsive force between the movable contact and the stationary contact. This ensures reliable contact between the movable contact and the stationary contact, and achieves quick upward pressing on the movable spring.

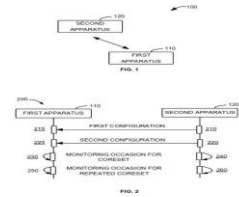




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(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland
(72) Inventors: (0) Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Finland Nationality -Finland
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(51) INT. CL. : H04W 72/04
(54) Invention Title: MONITORING OCCASION FOR REPEATED CORESET
(57) Abstract Example embodiments of the present disclosure are directed to monitoring occasion for repeated control resource set (CORESET). In a method, a first apparatus receives, from a second apparatus, a first configuration of a first CORESET. The first configuration indicates a duration of the first CORESET. The first apparatus receives, from the second apparatus, a second configuration of a search space set associated with the first CORESET. The first apparatus determines a first monitoring occasion for receiving a physical downlink control channel (PDCCH) within the first CORESET based on the first configuration and the second configuration. The first apparatus determines, based on at least one rule, a time resource for a second monitoring occasion for receiving the PDCCH within a repeated first CORESET.

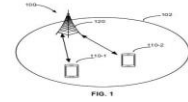




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(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland
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(51) INT. CL. : H04W 72/04
(54) Invention Title: MONITORING OF CONTENTION RESOLUTION MESSAGE SCHEDULING
(57) Abstract Example embodiments of the present disclosure are directed to monitoring of contention resolution message scheduling. A method comprises receiving, from a network apparatus, a configuration of a plurality of control channel resources for contention resolution message scheduling; transmitting, to the network apparatus, a contention-based transmission; determining, based on at least one transmission parameter of the contention-based transmission and from the plurality of control channel resources, one or more control channel resources for scheduling of a contention resolution message for the contention-based transmission; and monitoring, on the determined one or more control channel resources, the scheduling of the contention resolution message for the contention-based transmission.

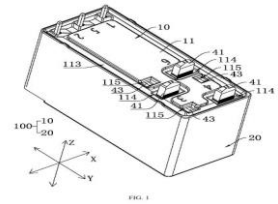




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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China
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(51) INT. CL. : H01H 50/14
(54) Invention Title: RELAY
(57) Abstract The disclosure discloses a relay, including an accommodating member and a relay body, the relay body is provided with a pin terminal, and the pin terminal is provided with a joint portion penetrating through the accommodating member and configured to be electrically connected to the outside. The pin terminal is provided with a body integrally connected to the joint portion, the accommodating member is internally provided with a limiting hole engaged with the body, a bottom wall of the accommodating member is provided with a through hole through which the joint portion penetrates, the limiting hole is in communication with the through hole, and a first gap is formed between the joint portion and the through hole. The present application can fix the pin terminal through one dispensing process, resulting in high assembly efficiency. (FIG. 6)





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(71) Applicant: Nokia Technologies Oy of Karakaari 7, Espoo 02610, Nationality -Finland	
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(74) Agent : A.B.M. Sohailud Doulah, Trademark Agent., House No. 153/2, Road No. 2/2, Block A, Section 12, Mirpur, , 1216, Dhaka, Bangladesh	
(51) INT. CL. : H04W 24/10	
(54) Invention Title: MEASUREMENTS ASSOCIATED WITH MULTIPLE USER EQUIPMENT INITIATED BEAM MANAGEMENT REPORTING CONFIGURATIONS	
(57) Abstract According to an example aspect of the present disclosure, there is provided a method, comprising determining at least one first beam being used by the apparatus, receiving, from a wireless network node, a configuration configuring the apparatus with multiple user equipment initiated beam management reporting configurations for at least one second beam, determining, based on said multiple user equipment initiated beam management reporting configurations, a first number of measurements, wherein the first number of measurements is for the at least one first beam and defined by a second number of measurements, wherein the second number of measurements is for the at least one second beam and measuring the at least one first beam according to the first number of measurements and the at least one second beam according to the second number of measurements. (FIG. 1)	<p>FIG. 1</p>



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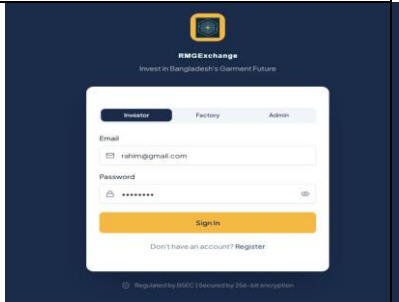
**Publication of Filed Patent Application
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(11) Patent registration No and date , (21) Appl. No. BD-P-2026-180 (22) Filed: 06/05/2026	
(23) Priority Data: European Patent Office (EPO), Number :251749966, Date : 08-05-2025.	
(71) Applicant: Nokia Technologies Oy of Karakaari 7, Espoo 02610, Nationality -Finland	
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(74) Agent : A.B.M. Sohailud Doulah, Trademark Agent., House No. 153/2, Road No. 2/2, Block A, Section 12, Mirpur, , 1216, Dhaka, Bangladesh	
(51) INT. CL. : H04W 24/10	
(54) Invention Title: MEASUREMENTS ASSOCIATED WITH ONE USER EQUIPMENT INITIATED BEAM MANAGEMENT REPORTING CONFIGURATION	
(57) Abstract ABSTRACT According to an example aspect of the present disclosure, there is provided a method, comprising determining at least one first beam being used by the apparatus, receiving, from a wireless network node, a configuration configuring the apparatus with one user equipment initiated beam management reporting configuration for at least one second beam, determining, based on said one user equipment initiated beam management reporting configuration, a first number of measurements, wherein the first number of measurements is for the at least one first beam and defined by a second number of measurements, wherein the second number of measurements is for the at least one second beam and measuring the at least one first beam according to the first number of measurements and the at least one second beam according to the second number of measurements. (FIG. 1)	<p>FIG. 1</p>



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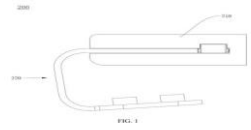
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(11) Patent registration No and date , (21) Appl. No. BD-P-2026-187 (22) Filed: 13/05/2026	
(23) Priority Data: N/A	
(71) Applicant: Mohammed Samiul Islam of 41/A Purana Paltan, Dhaka, 1000, Bangladesh	
(72) Inventors: (0) Mohammed Samiul Islam of 41/A Purana Paltan, Dhaka, 1000, Bangladesh	
(74) Agent : bd_mohammedsamiulislamce20c, Apt: 3/D, 1000, Dhaka, Bangladesh	
(51) INT. CL. : G06Q 40/02	
(54) Invention Title: RMGExchange.com	
(57) Abstract Ubique Corporation Ltd. proposes to establish Bangladesh's first online RMG Order Lifecycle Crowdfunding Platform — a technology-enabled marketplace that connects global garment buyers and Bangladeshi factories with a distributed pool of small retail investors. Modelled on the LendingClub concept (USA), the platform allows individual investors to co-finance live purchase orders (POs) and Letters of Credit (LCs) in place of — or alongside — traditional bank financing. The Bangladesh RMG sector exported USD 39.35 billion in FY2024-25, with consistent double-digit growth trajectory targeting USD 85 billion+ in the near term. Currently, virtually all order financing flows through the formal banking system, leaving factories margin-squeezed and small Bangladeshi investors locked out of the sector's wealth creation. This platform directly addresses both gaps. Core Value Proposition <ul style="list-style-type: none">• Factories: Access to alternative, faster, non-collateral-heavy order financing• Buyers: A resilient, additional financing channel for supply chain stability• Small Investors: Regulated, insured, transparent participation in RMG order returns (7-12% p.a.)• Bangladesh: More of the RMG value chain retained domestically; reduced forex leakage	



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(74) Agent : A.B.M. Sohailud Doulah, Trademark Agent., House No. 153/2, Road No. 2/2, Block A, Section 12, Mirpur, , 1216, Dhaka, Bangladesh	
(51) INT. CL. : G01R 11/04	
(54) Invention Title: MOVING SPRING MOUNTING STRUCTURE, RELAY, AND ELECTRIC METER	
(57) Abstract The present application relates to a moving spring mounting structure, a relay, and an electric meter. The moving spring mounting structure includes: a mounting member fixedly provided on the housing and having a mounting slot, and a connecting member in insertion fit with the mounting member. A first end of the moving spring body is fixedly connected to the connecting member, and a second end of the moving spring body is configured as a movable end of the moving spring body. The moving spring body is mounted on the housing through the engagement between the connecting member and the mounting member, with its second end serving as a movable end. This configuration meets the requirements for connection and disconnection between contacts during the operation of the relay. Additionally, the insertion fit between the mounting member and the connecting member effectively reduces the process difficulty of mounting to the housing. When the maintenance is required, the moving spring body and the connecting member can be removed together, with low operational difficulty and easy implementation.	



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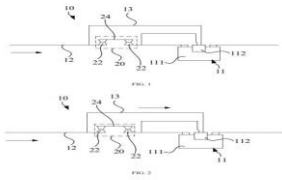
<p>(11) Patent registration No and date , (21) Appl. No. BD-P-2026-191 (22) Filed: 14/05/2026</p>
<p>(23) Priority Data: N/A</p>
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<p>(51) INT. CL. : A23L 25/00</p>
<p>(54) Invention Title: Pumpkin Seed Butter</p>
<p>(57) Abstract</p> <p>Pumpkin Seed Butter is an innovative, nutrient-dense functional food product designed to provide a delicious, convenient, and health-conscious alternative to conventional spreads. Made primarily from roasted shell-free pumpkin seeds, this butter retains the seeds' natural antioxidants, plant-based proteins, healthy fats, vitamins, and minerals, supporting immune health, cardiovascular wellness, digestion, and sustained energy levels. The formulation is vegan-friendly, allergen-free, and free from artificial additives, making it a clean-label spread suitable for diverse dietary preferences. The production process involves careful selection and cleaning of mature pumpkin seeds, controlled roasting to enhance flavour while preserving nutrients, cooling, and grinding into a coarse paste. Natural ingredients such as honey, olive oil, cinnamon, and salt are then incorporated, followed by blending to achieve a smooth, spreadable consistency. The butter is filled into airtight, food-grade containers to maintain freshness, prevent oxidation, and ensure long shelf life. This functional spread caters to athletes, busy professionals, health-conscious consumers, and individuals with nut allergies, offering a portable, versatile, and non-messy alternative to nut butters. With its sustainable sourcing and minimal processing, Pumpkin Seed Butter also contributes to environmentally responsible food practices. This patent application highlights the unique formulation, processing methodology, nutritional profile, and innovative market positioning of the product, ensuring its distinct identity in the expanding functional food and wellness market.</p>





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(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China	
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(74) Agent : A.B.M. Sohailud Doulah, Trademark Agent., House No. 153/2, Road No. 2/2, Block A, Section 12, Mirpur, , 1216, Dhaka, Bangladesh	
(51) INT. CL. : H02H 7/18	
(54) Invention Title: TRIGGER, ACTUATION PROTECTION CIRCUIT, CIRCUIT PROTECTION DEVICE, BATTERY PROTECTION CIRCUIT, AND POWER SUPPLY DEVICE	
(57) Abstract The present application relates to a trigger, an actuation protection circuit, a circuit protection device, a battery protection circuit, and a power supply device. The trigger has a first conductive path. The first conductive path is configured to connect to a load circuit. The trigger is configured such that when a fault current occurs in the load circuit, a resistance of the first conductive path reaches a resistance threshold, and the trigger enables a circuit protection assembly to be triggered in response to the resistance threshold reached by the first conductive path.	



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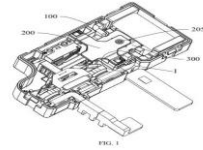
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(23) Priority Data: China, Number :2025106374711, Date : 16-05-2025.	
(71) Applicant: Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China	
(72) Inventors: (0) Xiamen Hongfa Electric Power Controls Co.,Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, China Nationality -China	
(74) Agent : A.B.M. Sohailud Doulah, Trademark Agent., House No. 153/2, Road No. 2/2, Block A, Section 12, Mirpur, , 1216, Dhaka, Bangladesh	
(51) INT. CL. : H02H 7/18	
(54) Invention Title: TRIGGER, ACTUATION PROTECTION CIRCUIT, AND CIRCUIT PROTECTION DEVICE	
(57) Abstract The present application relates to a trigger, an actuation protection circuit, and a circuit protection device. The trigger includes a first conductive member, a second conductive member, a pressing member, and a retaining mechanism. The first conductive member is in contact conduction with the second conductive member. The pressing member is configured to apply a pressing force to the first conductive member directed toward the second conductive member. The retaining mechanism is capable of limiting the pressing member to retain the pressing member abutting against the first conductive member. The trigger is configured such that: when a current through the first and second conductive members is greater than or equal to a preset current, the retaining mechanism is enabled to move relative to the second conductive member to release the limitation on the pressing member, enabling the first conductive member to bounce open relative to the second conductive member.	



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China
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(51) INT. CL. : F16B 11/00
(54) Invention Title: RELAY
(57) Abstract The disclosure relates to the technical field of electronic control devices, in particular to a relay, including a base, a fixing bracket, and a magnetic rotating member, the magnetic rotating member being rotatably mounted on the fixing bracket; the base is provided with a plug portion, the fixing bracket is provided with an adhesive-receiving groove, an insertion hole is disposed on a bottom of the adhesive-receiving groove, and the plug portion is inserted into the adhesive-receiving groove through the insertion hole. Since the adhesive-receiving groove is provided on the fixing bracket and the insertion hole is disposed on the groove bottom of the adhesive-receiving groove, after the fixing bracket is mounted on the base, the plug portion of the base is inserted into the insertion hole. This facilitates observation of adhesive injection process when injecting adhesive into the adhesive-receiving groove, thereby ensuring the adhesive bonding effect between the fixing bracket and the base, and achieving reliable fixation strength. Additionally, a volume of the adhesive-receiving groove and a bonding surface area of the plug portion configured to be in contact with the adhesive can be larger according to actual strength requirements, thereby more easily ensuring the fixation strength. (FIG. 1)





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(51) INT. CL. : A01P 7/02
(54) Invention Title: INSECTICIDAL AND ACARICIDAL FORMULATION CONTAINING ISOXAZOLINE COMPOUNDS AND USE
(57) Abstract The present invention relates to the technical field of pesticides, in particular to an insecticidal and acaricidal formulation containing isoxazoline compounds and a use thereof. The present invention adopts the formulation prepared by using nonionic polyether type surfactants, can significantly improve the wetting effect of the formulation on leaf surface, reduce surface tension after spraying and wetting with the formulation, and increase the retention rate of the active ingredient on the leaf surface, such that the formulation containing nonionic polyether type surfactants exhibits superior activity against insects and mites; in addition, the formulation prepared in the invention has stable quality and is suitable for industrial production.



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(51) INT. CL. : A23L 17/60
(54) Invention Title: Development of a Low-Fat, Antioxidant-Rich Baked Functional Chips from Spinach- Seaweed and Vegetable-Based Composite Formulation
(57) Abstract The present invention describes the development of a low-fat, antioxidant-enriched baked functional chips formulated from spinach (<i>Spinacia oleracea</i>), seaweed (<i>Gracilaria sp.</i>), mushroom (<i>Pleurotus sp.</i>), and natural plant-based ingredients, offering a nutritionally superior alternative to conventional deep-fried snacks. The product is produced through a controlled baking process (90°C for 55 minutes), resulting in a significantly reduced fat content (1.26%) while maintaining desirable crispiness, texture, and sensory acceptability. The formulation provides a balanced nutritional profile, including 7.35% protein, 5.00% dietary fiber, 11.5% mineral content, and high levels of bioactive compounds (TPC: 21.82 mg GAE/g, TFC: 17.25 mg QE/g, antioxidant capacity: 32.30 mg AAE/g), contributing to multiple health benefits such as improved cardiovascular health, digestive support, antioxidant protection, and thyroid function due to iodine- rich seaweed. The product exhibits favorable physicochemical properties, including low moisture (5.27%), low water activity (0.434), and optimal texture (8.00 N), ensuring extended shelf life without the use of synthetic additives. Sensory evaluation confirms high consumer acceptability (overall score: 7.93/9). The novelty of the invention lies in the synergistic integration of terrestrial and marine functional ingredients into a clean-label, baked snack system with enhanced nutritional, functional, and sensory properties, while also supporting cost-effective production using locally available resources in Bangladesh.



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(54) Invention Title: SHIELDING COVER, RELAY ASSEMBLY, AND ELECTRICITY METER
(57) Abstract The application discloses a shielding cover (20), a relay assembly, and an electricity meter. The shielding cover (20) is configured to be sleeved along a Y-axis direction onto a relay (10) applied in the electricity meter. Terminals (11) are arranged on a front side of the relay (10) along the Y-axis direction, and the relay (10) is provided with a magnetic circuit portion. The shielding cover (20) has a first plate (21) and a second plate (22) disposed along a Z-axis direction respectively. A rear side of the shielding cover (10) along the Y-axis direction is further provided with a third plate (23) integrated with the first plate (21) and the second plate (22); on a projection plane perpendicular to the Z-axis direction, both the first plate (21) and the second plate (22) cover the magnetic circuit portion; a length of the first plate (21) along an X-axis direction is smaller than a length of the second plate (22) along the X-axis direction; and two ends of the second plate (22) along the X-axis direction are flush with or protrude from two ends of the relay (10) along the X-axis direction, respectively.

